

Rectangular-Area 3D Locking Sprag

Honeybee Robotics, Ltd.
New York, NY



INNOVATION

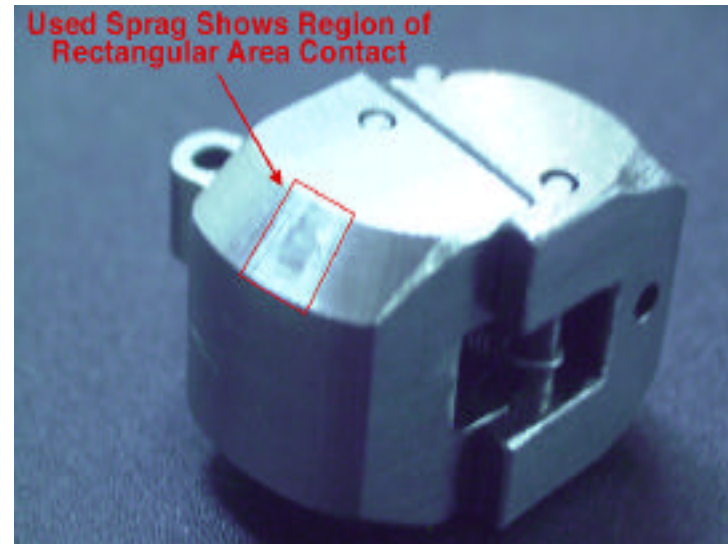
Developed Rectangular Area Contact 3D Locking Sprag (RACLS) that reduces the contact stress in conventional 3D sprag-locking mechanisms between the sprag and the inner and outer race, thus allowing for greater loading capability and/or lower wear rate of the components.

ACCOMPLISHMENTS

- ◆ Reduced the contract stress in conventional 3D sprag-locking mechanisms between the sprag and the inner and outer race, thus allowing for greater loading capability and/or lower wear rate of the components.
- ◆ This technology could provide a new generation of brakes, clutches and other locking mechanisms that can withstand higher loads, thus extending their possible applications.

COMMERCIALIZATION

- ◆ A licensing agreement has been signed with Spragtech, LLC in order for them to utilize our Patent #5,518,094 for the Clutch/Brake Having Rectangular-Area-Contact 3D Locking Sprag.
- ◆ Spragtech will use this technology in the development and marketing of three-dimensional sprags for two specific applications: hand tools and bicycles.
- ◆ Discussions are being held with Avid Technology regarding the utilization of these sprags for their line of mountain bikes.
- ◆ Spragtech is in the process of concluding marketing agreements with several large hand tool manufactures.



3D SPLIT-LOCKING SPRAG

GOVERNMENT SCIENCE/APPLICATIONS

- ◆ Spragtech is an intellectual property company established to facilitate the transfer of technology developed by NASA for commercial use.

Points of Contact:

- NASA - John Vranish; 301-286-4031
- Honeybee Robotics Ltd., Chris Chapman; 212-966-0661